

### Entering 6<sup>th</sup> Grade Summer Math Packet

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

6<sup>th</sup> Grade Teacher: \_\_\_\_\_

I have checked the work completed: \_\_\_\_\_

Parent Signature

1. Find the products. **This page should be completed in 3 minutes no more than 4 minutes.**

**Have someone time you.** Any multiplication problem you do not know quickly, practice on flash cards.

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$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 12 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 0 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 0 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$$

2. Find the quotients. **This page should be completed in 3 no more than 4 minutes. Practice any problems you do not know instantly.** Think of the multiplication fact family. The better you know your multiplication facts the easier division will be.

$$\begin{array}{l} 2 \overline{)2} \quad 3 \overline{)9} \quad 8 \overline{)32} \quad 7 \overline{)49} \quad 5 \overline{)10} \quad 4 \overline{)0} \quad 1 \overline{)1} \quad 4 \overline{)8} \quad 2 \overline{)12} \quad 9 \overline{)54} \quad 1 \overline{)3} \quad 1 \overline{)2} \quad 2 \overline{)4} \end{array}$$

$$\begin{array}{l} 8 \overline{)8} \quad 7 \overline{)63} \quad 8 \overline{)40} \quad 5 \overline{)0} \quad 4 \overline{)4} \quad 4 \overline{)12} \quad 9 \overline{)45} \quad 9 \overline{)63} \quad 6 \overline{)6} \quad 3 \overline{)12} \quad 1 \overline{)7} \quad 3 \overline{)0} \quad 1 \overline{)9} \end{array}$$

$$\begin{array}{l} 2 \overline{)16} \quad 3 \overline{)3} \quad 3 \overline{)15} \quad 5 \overline{)20} \quad 3 \overline{)18} \quad 3 \overline{)6} \quad 5 \overline{)15} \quad 7 \overline{)0} \quad 9 \overline{)27} \quad 4 \overline{)16} \quad 7 \overline{)21} \quad 4 \overline{)20} \quad 7 \overline{)28} \end{array}$$

$$\begin{array}{l} 8 \overline{)16} \quad 3 \overline{)21} \quad 9 \overline{)18} \quad 4 \overline{)24} \quad 2 \overline{)6} \quad 1 \overline{)8} \quad 5 \overline{)35} \quad 7 \overline{)35} \quad 3 \overline{)27} \quad 6 \overline{)36} \quad 3 \overline{)24} \quad 2 \overline{)0} \quad 4 \overline{)32} \end{array}$$

$$\begin{array}{l} 9 \overline{)9} \quad 4 \overline{)36} \quad 6 \overline{)42} \quad 5 \overline{)40} \quad 8 \overline{)64} \quad 7 \overline{)14} \quad 6 \overline{)30} \quad 8 \overline{)56} \quad 1 \overline{)5} \quad 4 \overline{)28} \quad 7 \overline{)56} \quad 8 \overline{)24} \quad 6 \overline{)24} \end{array}$$

$$81 \div 9 = \underline{\quad\quad\quad} \quad 48 \div 6 = \underline{\quad\quad\quad} \quad 18 \div 6 = \underline{\quad\quad\quad} \quad 42 \div 7 = \underline{\quad\quad\quad}$$

$$10 \div 2 = \underline{\quad\quad\quad} \quad 54 \div 6 = \underline{\quad\quad\quad} \quad 36 \div 9 = \underline{\quad\quad\quad} \quad 45 \div 5 = \underline{\quad\quad\quad}$$

$$72 \div 8 = \underline{\quad\quad\quad} \quad 8 \div 2 = \underline{\quad\quad\quad} \quad 72 \div 9 = \underline{\quad\quad\quad} \quad 6 \div 1 = \underline{\quad\quad\quad}$$

$$25 \div 5 = \underline{\quad\quad\quad} \quad 5 \div 5 = \underline{\quad\quad\quad} \quad 18 \div 2 = \underline{\quad\quad\quad} \quad 30 \div 5 = \underline{\quad\quad\quad}$$

$$12 \div 1 = \underline{\quad\quad\quad} \quad 49 \div 7 = \underline{\quad\quad\quad} \quad 21 \div 3 = \underline{\quad\quad\quad} \quad 36 \div 6 = \underline{\quad\quad\quad}$$

Select the one best answer for each question. DO NOT use a calculator in completing this packet.

3. Jennie was assigned this problem:

$$\begin{array}{r} 146 \\ \times 25 \\ \hline \end{array}$$

She worked out the problem in this way:

$146 \times 2 = 292$ , and  $146 \times 5 = 730$ . Then she added  $292 + 730$ . She knew that her answer was wrong because her answer seemed too small. What should she have done differently?

- A. She should have multiplied  $146 \times 50$  instead of  $146 \times 50$ .  
 B. She should have multiplied  $146 \times 20$  instead of  $146 \times 2$ .  
 C. She should have multiplied  $146 \times 200$  instead of  $146 \times 2$ .  
 D. She should have multiplied  $140 \times 2$  instead of  $146 \times 2$ .
4. Which of the following is the correct computation of  $4,063 \times 52$ ? (Do not use a calculator.)

A. $\begin{array}{r} 4,063 \\ \times \quad 52 \\ \hline 8026 \\ 200150 \\ \hline 208176 \end{array}$	B. $\begin{array}{r} 4,063 \\ \times \quad 52 \\ \hline 8126 \\ 20315 \\ \hline 28441 \end{array}$	C. $\begin{array}{r} 4,063 \\ \times \quad 52 \\ \hline 8126 \\ 2030150 \\ \hline 2038276 \end{array}$	D. $\begin{array}{r} 4,063 \\ \times \quad 52 \\ \hline 8126 \\ 203150 \\ \hline 211276 \end{array}$
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5. Samantha has to read a book that is 525 pages long. She has 21 days to read the book. How many pages will she need to read each day to finish on time?
- A. 21  
 B. 25  
 C. 546  
 D. 11,025
6. Andrew's family is going on vacation across the United States. They traveled 515 miles every day for 17 days. How many miles did they travel in all?
- A. 532  
 B. 4,120  
 C. 8,165  
 D. 8,755
7. Three classes of 25 students collected 8 cans of soup from each student. The cans were then to be divided between 4 charities. How many cans of soup went to each charity?
- A. 50  
 B. 108  
 C. 150  
 D. 800

8. Brent has a collection of 84 Bobble Head trophies he needs to box up for the move to his new home. He can fit 7 trophies into one box. How many boxes will Brent need?
- A. 10
  - B. 12
  - C. 13
  - D. 21
9. Kayla has 12 cousins. She received \$15.00 from each cousin for her birthday. How much money did she receive in all?
- A. \$27
  - B. \$120
  - C. \$150
  - D. \$180
10. The 5<sup>th</sup> grade is going on a trip to the state park. There are 1,012 students going. Each bus can hold 44 students. How many busses will they need? (Do not use a calculator.)
- A. 23
  - B. 26
  - C. 50
  - D. 968
11. Find  $1717 \div 17$ . Do not use a calculator.
- A. 11
  - B. 101
  - C. 107
  - D. 1001
12. Solve  $4806 \div 15$  without using a calculator, show your work.
- A. 32
  - B. 320 r 6
  - C. 320 r 4
  - D. 320
13. Solve  $647 \div 21$ . Do not use a calculator, show your work.
- A. 3 r 11
  - B. 3 r 21
  - C. 30 r 8
  - D. 30 r 17

14. Use a factor tree to find the prime factorization of the composite number 50. Which answer expresses the number in exponential notation (powers)?

A.  $2 \times 5^2$   
 B.  $2^2 \times 5^2$   
 C.  $2^3 \times 5^3$   
 D.  $10 \times 5$

15. Find the prime factorization for 84.

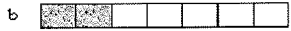
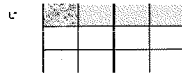
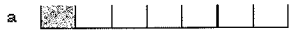
A.  $2 \times 42$   
 B.  $7 \times 2 \times 2 \times 3$   
 C.  $7 \times 4 \times 3$   
 D.  $7 \times 12$

16. Find the prime factorization for the number 48 expressed in exponential notation.

A.  $3^1 \times 2^4$   
 B.  $6 \times 8^1$   
 C.  $3 \times 2^4 \times 4$   
 D.  $3 \times 2^2 \times 4$

17. Which drawing would you use to find the product of these two fractions?

$$\frac{1}{4} \times \frac{1}{3} =$$



A. Drawing a  
 B. Drawing b  
 C. Drawing c  
 D. Drawing d

18. Solve this equation:

$$\frac{2}{3} \div 3 =$$

A. 2  
 B. 3  
 C.  $\frac{2}{6}$   
 D.  $\frac{2}{9}$

19. Solve the following:

$$1/3 \div 4 =$$

- A.  $4/3$
- B.  $1/7$
- C.  $1/12$
- D. 12

20. Solve this equation:  $2 \div 1/4 =$

- A.  $1/2$
- B.  $2/4$
- C. 2
- D. 8

21. Mrs. Lovell's class is baking cookies. They need  $3 \frac{3}{5}$  pounds of sugar and  $5 \frac{1}{3}$  pounds of flour. When they mix the sugar and flour together, how many pounds will they have altogether?

- A.  $8 \frac{4}{8}$  pounds
- B.  $8 \frac{3}{4}$  pounds
- C.  $9 \frac{3}{15}$  pounds
- D.  $8 \frac{14}{15}$  pounds

22. Choose the correct answer for this problem:

$$7/9 - 3/8 =$$

- A.  $10/17$
- B.  $29/72$
- C.  $56/27$
- D.  $21/72$

23. Choose the correct answer for this problem:

$$3/7 + 2/9 =$$

- A.  $5/16$
- B.  $41/63$
- C.  $6/63$
- D.  $18/14$

24. Tom had  $7/12$  of a pizza. His little sister came along and took  $2/5$  of his pizza away. How much pizza does Tom have left?

- A.  $11/60$
- B.  $5/7$
- C.  $9/17$
- D.  $5/60$

25. Jill has  $\frac{3}{4}$  of a yard of ribbon. Tammy has  $\frac{4}{7}$  of a yard. How much do they have together?
- A.  $\frac{7}{11}$  of a yard
  - B.  $\frac{40}{28}$  of a yard
  - C.  $\frac{1}{3}$  of a yard
  - D.  $\frac{37}{28}$  of a yard
26. Paul had  $3\frac{7}{8}$  cups of milk. He gave  $1\frac{3}{4}$  cups of milk to his cat. How much milk did he have left? Show your work.
- A. 2 cups
  - B.  $2\frac{1}{8}$  cups
  - C.  $2\frac{4}{4}$  cups
  - D.  $1\frac{7}{8}$  cups
27. Nancy ate  $\frac{1}{3}$  of a pizza and Gabe ate  $\frac{1}{4}$  of the pizza. How much of the whole pizza is left?
- A.  $\frac{7}{12}$
  - B.  $\frac{5}{12}$
  - C.  $\frac{2}{7}$
  - D.  $\frac{6}{7}$
28. Choose the correct answer for this problem:  $\frac{5}{4} - \frac{3}{12} =$
- A.  $\frac{2}{12}$
  - B.  $\frac{12}{12}$
  - C.  $\frac{9}{24}$
  - D.  $\frac{2}{48}$
29. Patty brought  $\frac{1}{2}$  of a cake to class, and Joe brought  $\frac{3}{4}$  of a cake on the same day. How much cake did the class have altogether? Show your work.
- A.  $\frac{1}{4}$  cake
  - B. 1 cake
  - C.  $\frac{4}{6}$  cake
  - D.  $1\frac{1}{4}$  cake
30. Don has \$12.32 in his piggy bank. He collects and returns pop cans for \$3.70. Approximately how much money does he have together? (Round the answer to the nearest whole dollar.)
- A. \$8
  - B. \$15
  - C. \$16
  - D. \$17

37. Seven out of ten students in Ms. Allington's class completed the summer math packet. What percentage of students completed the packet?
- A. 7 %  
 B. 70 %  
 C. .7 %  
 D. 14%
38. How much larger is one cubic foot than one cubic inch?
- A. 3 times larger  
 B. 15 times larger  
 C. 144 times larger  
 D. 1728 times larger
39. Which of the following is NOT equivalent?
- A. 1 ton = 2000 pounds  
 B. 1 mile = 5200 feet  
 C. 9 feet = 3 yards  
 D. 60 minutes = 3600 seconds
40. Sharon reads the juice bottle and finds that it contains 1.89 liters of juice. His cup only holds 240 milliliters so he wants to convert 1.89 liters to milliliters. The bottle contains how many milliliters?
- A. 1.89 milliliters  
 B. 18.9 milliliters  
 C. 189 milliliters  
 D. 1890 milliliters
41. Solve the following:

$$\begin{array}{r} 2,749 \\ \times 68 \\ \hline \end{array}$$

$$\begin{array}{r} 156 \\ \times 78 \\ \hline \end{array}$$

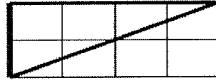
$$\begin{array}{r} 837 \\ \times 46 \\ \hline \end{array}$$

$$\begin{array}{r} 368 \\ \times 20 \\ \hline \end{array}$$

42. Which is true?
- A. 0.07 is ten times greater than 0.7  
 B. 0.070 is ten times greater than 0.007  
 C. 0.070 is equal to 0.0070  
 D. 0.07 is seven times greater than 0.70

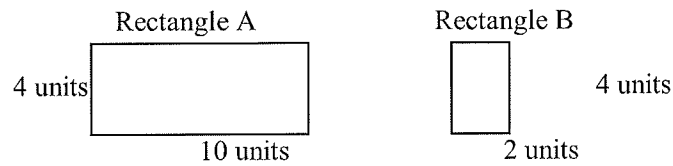


43. Using the rectangle method, what is the area of this triangle?



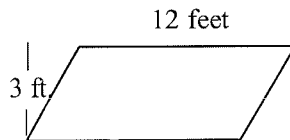
- A. 2 square units
- B. 4 square units
- C. 6 square units
- D. 8 square units

44. Which statement is true about the relationship between the areas of these two rectangles?



- A. Rectangle A has twice the area of Rectangle B.
- B. Rectangle A has 5 times the area of Rectangle B.
- C. Rectangle A has one-half the area of Rectangle B.
- D. Rectangle A has one-fifth the area of Rectangle B.

45. What is the area of this quadrilateral? Area = height x width

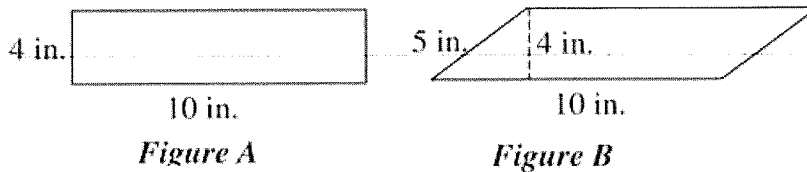


- A. 30 feet
- B. 30 square feet
- C. 36 feet
- D. 36 square feet

46. Which of the following is a true statement?

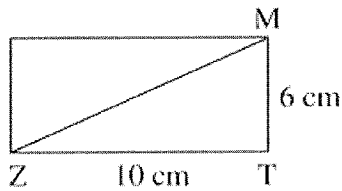
- A. 0.003 is  $\frac{1}{3}$  the value of 0.03
- B. 0.003 is 3 times the value of 0.03
- C. 0.003 is  $\frac{1}{10}$  the value of 0.03
- D. 0.003 is 10 times the value of 0.03

47. How do the areas of these two figures compare? Select your answer, then explain why you think you answer is correct.



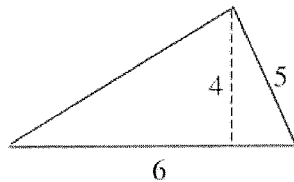
- A. The area of Figure A is greater than the area of Figure B.  
 B. The area of Figure B is greater than the area of Figure A.  
 C. The area of Figure A is equal to the area of Figure B.  
 D. The area of Figure B is twice the area of Figure A.

48. Use the diagram to find the area of the triangle ZMT.



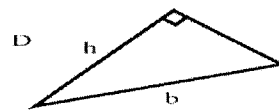
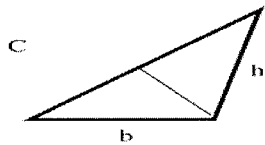
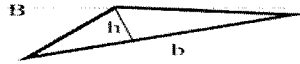
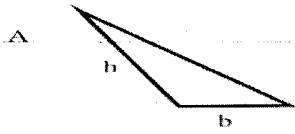
- A. 16 square cm  
 B. 30 square cm  
 C. 32 square cm  
 D. 60 square cm

49. What is the area of this triangle?



- A.  $A = (5 \times 4) \div 2$   
 B.  $A = (5 \times 5) \div 2$   
 C.  $A = (6 \times 5) \div 2$   
 D.  $A = (6 \times 4) \div 2$

50. The area of the triangle can be found using the formula  $A = bh \div 2$ . Which of the following figures is labeled correctly to apply this formula?



51. Solve each of these without using a calculator:

$4 \times 6 = \underline{\quad}$

$8 \times 8 = \underline{\quad}$

$6 \times 7 = \underline{\quad}$

$2 \times 9 = \underline{\quad}$

$5 \times 5 = \underline{\quad}$

$9 \times 6 = \underline{\quad}$

$8 \times 5 = \underline{\quad}$

$2 \times 2 = \underline{\quad}$

$3 \times 4 = \underline{\quad}$

$32 \div 4 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$56 \div 7 = \underline{\quad}$

$72 \div 9 = \underline{\quad}$

$18 \div 2 = \underline{\quad}$

$3 \times 8 = \underline{\quad}$

$45 \div 9 = \underline{\quad}$

$4 \times 4 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

$24 \div 3 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

$3 \times 8 = \underline{\quad}$

52. Find the sum or difference. Watch the signs.

$$\begin{array}{r} 501 \\ -247 \\ \hline 487 \end{array}$$

$$\begin{array}{r} 607 \\ -217 \\ \hline \end{array}$$

$$\begin{array}{r} 850 \\ +268 \\ \hline \end{array}$$

$$\begin{array}{r} 3,031 \\ -1,441 \\ \hline \end{array}$$

$$\begin{array}{r} 953 \\ +529 \\ \hline \end{array}$$

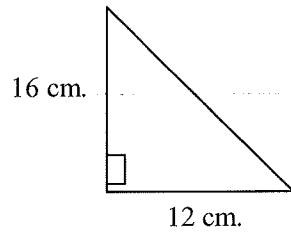
$$\begin{array}{r} 700 \\ -202 \\ \hline \end{array}$$

$$\begin{array}{r} 387 \\ \pm \\ \hline \end{array}$$

53. Find the difference  $701.02 - 234.12$ . Show your work

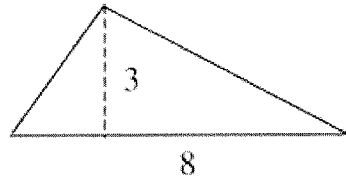
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54. What is the area in square centimeters of the triangle pictured below?



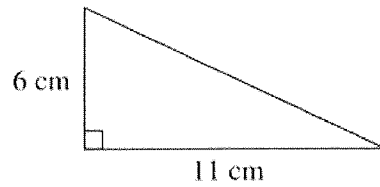
- A. 28 square cm.
- B. 56 square cm.
- C. 96 square cm.
- D. 192 square cm.

55. What is the area of this triangle?



- A. 7
- B. 11
- C. 12
- D. 24

56. What is the area of this triangle? ( $A = bh \div 2$ )

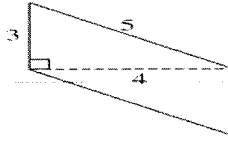


- A. 17 sq. cm.
- B. 33 sq. cm.
- C. 66 sq. cm.
- D. 132 sq. cm

57. The fraction  $\frac{4}{20}$  equals what percentage?

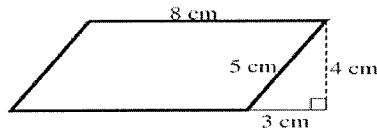
- A. 4 %
- B. 20%
- C. 25%
- D. 40%

58. Use the diagram to find the area of the parallelogram. ( $A = bh$ )



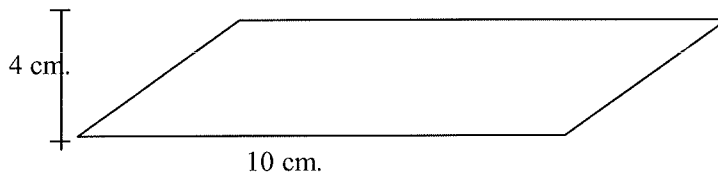
- A. 12 square centimeters
- B. 15 square centimeters
- C. 20 square centimeters
- D. 60 square centimeters

59. Find the area of the parallelogram below.



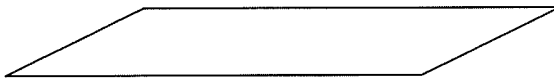
- A.  $12 \text{ cm}^2$
- B.  $24 \text{ cm}^2$
- C.  $32 \text{ cm}^2$
- D.  $40 \text{ cm}^2$

60. What is the area of the parallelogram shown below?



- A.  $14 \text{ cm}^2$
- B.  $20 \text{ cm}^2$
- C.  $28 \text{ cm}^2$
- D.  $40 \text{ cm}^2$

61. The area of this parallelogram is 24 square units. The base of the parallelogram is 8 units. What is the height of the figure? Circle your answer below and draw the height on the parallelogram.

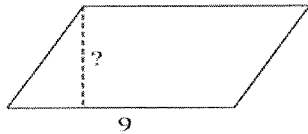


- A. 2 units
- B. 3 units
- C. 4 units
- D. 6 units

62. The area of a parallelogram is 36 square inches. All of the following are possible bases and heights for this figure EXCEPT:

- A. 1 inch by 36 inches
- B. 3 inches by 12 inches
- C. 4 inches by 9 inches
- D. 5 inches by 7 inches

63. The base of the parallelogram below is 9 centimeters. The area is 72 square centimeters. What must the height of the parallelogram by? ( $A = bh$ )



- A. 6 centimeters
- B. 7 centimeters
- C. 8 centimeters
- D. 9 centimeters

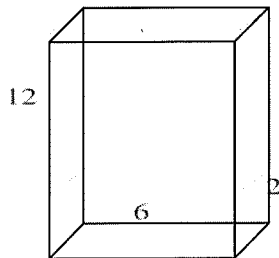
64. Using unit cubes, build a solid that is 6 units in length, 2 units in width, and 3 units in height. What is the volume?

- A. 11 cube units
- B. 18 cube units
- C. 24 cube units
- D. 36 cube units

65. Using unit cubes, build a solid that is 4 units in length, 4 units in width, and 4 units in height. What is the volume?

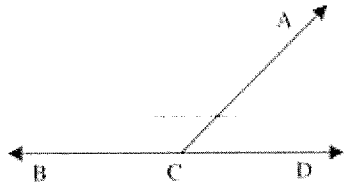
- A. 12 cube units
- B. 16 cube units
- C. 36 cube units
- D. 64 cube units

66. A cereal box has the shape of a rectangular prism. It is 12 inches high, 6 inches wide and 2 inches deep. How many cubic inches of cereal can it hold?



- A. 20
- B. 40
- C. 72
- D. 144

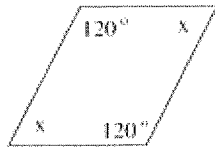
81.  $\angle ACD$  measures  $60^\circ$ . Find the measurement of  $\angle ACB$ . (Do NOT use a protractor.)



- A.  $120^\circ$   
 B.  $130^\circ$   
 C.  $160^\circ$   
 D.  $180^\circ$
82. Which of the following could be the measures of the interior angles of a triangle?

- A.  $30^\circ, 30^\circ, 30^\circ$   
 B.  $30^\circ, 60^\circ, 90^\circ$   
 C.  $60^\circ, 90^\circ, 120^\circ$   
 D.  $60^\circ, 120^\circ, 180^\circ$

83. This is a parallelogram. In all parallelograms, the opposite angles are equal. Find the measure of angle  $x$ .



- A.  $50^\circ$   
 B.  $60^\circ$   
 C.  $70^\circ$   
 D.  $120^\circ$
84. What is the measurement of angle A?



- A.  $45^\circ$   
 B.  $60^\circ$   
 C.  $90^\circ$   
 D.  $120^\circ$

92. Using the graph above. In 1988 what was the difference of the GDP for Other Countries and New Zealand?

- A. About \$100 per head
- B. About \$200 per head
- C. About \$1200 per head
- D. About \$1300 per head

93. Family A has 2 children, Family B has 1 child, Family C has 1 child, and Family D has 4 children. What is the mean number of children for the families?

- A. 1
- B. 2
- C. 3
- D. 4

94. The set of data below represents the number of books read in one month by each member of the book club.

3, 6, 7, 3, 3, 9, 0, 0, 1, 3, 7, 2, 5, 9, 7

What is the mode number of books for this set of data?

- A. 0
- B. 3
- C. 7
- D. 9

What is the range number of books for the set of data above?

- A. 0
- B. 1
- C. 7
- D. 9

95. The data below show a set of Angela's golf scores. What is the mean of the scores listed?

84, 88, 88, 77, 73

- A. 73
- B. 82
- C. 84
- D. 88

96. Family A has 2 children, Family B has 0 children, Family C has 1 child, and Family D has 0 children. Find the mode for this data.

- A. 0
- B. 1
- C. 2
- D. 3



107. The table shows the scores of 20 students on a history test. What is the average student score? You may use a calculator.

Score	Number of Students
90	3
85	5
80	3
75	4
70	2
60	0
55	3

- A. 26  
 B. 74  
 C. 77  
 D. 85
108. Sandy had test scores of 20, 25, 17, 22 and 21 (out of 25 total). What is her average (mean) score?

---

On the next 3 tests Sandy's scores were 24, 24 and 23. What is her mean now?

- A. 24  
 B. 23  
 C. 22  
 D. 21

Explain how you figured this out.

---



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109. Philip solved the following problem incorrectly. Explain his mistake.

$$\begin{array}{r} 1659 \\ \times 21 \\ \hline 1659 \\ +3318 \\ \hline 4977 \end{array}$$

---

110. Use mental math to solve:

- A.  $400 \times 3 =$  \_\_\_\_\_       $60 \times 60 =$  \_\_\_\_\_       $8,000 \times 20 =$  \_\_\_\_\_
- B.  $1600 \div 80 =$  \_\_\_\_\_       $250 \div 50 =$  \_\_\_\_\_       $12000 \div 400 =$  \_\_\_\_\_

111. Find the product:

$$\begin{array}{r} 36 \\ \times 47 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ \times 68 \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ \times 39 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 47 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ \times 37 \\ \hline \end{array}$$

112. Construct a factor tree for the composite number 27. Express your answer in exponential notation (powers).

113. Nancy and Gabe had a pizza with 12 pieces. Brent ate  $\frac{1}{3}$  of a pizza and Kayla ate  $\frac{1}{4}$  of a pizza. How much of the whole pizza **is left?** Show your work.

\_\_\_\_\_

114. Show which is larger, smaller or equal using the less than symbol (<), the greater than symbol (>), or the equal sign (=).

$$1 \text{ in.}^3 \text{ _____ } 1 \text{ ft.}^3$$

$$1 \text{ cm.}^3 \text{ _____ } 1 \text{ m.}^3$$

$$2 \text{ ft.}^3 \text{ _____ } 1 \text{ yd.}^3$$

115. Explain why the formula for finding the area of a triangle makes sense in terms of the area of a rectangle (use a drawing in your explanation).

122. Find the products or quotient.

Any multiplication problem you do not know quickly please practice on flash cards.

$$\begin{array}{r} 4 \\ \times 7 \end{array} \quad \begin{array}{r} 5 \\ \times 0 \end{array} \quad \begin{array}{r} 3 \\ \times 3 \end{array} \quad \begin{array}{r} 5 \\ \times 8 \end{array} \quad \begin{array}{r} 9 \\ \times 4 \end{array} \quad \begin{array}{r} 5 \\ \times 7 \end{array} \quad \begin{array}{r} 7 \\ \times 1 \end{array} \quad \begin{array}{r} 9 \\ \times 5 \end{array} \quad \begin{array}{r} 5 \\ \times 6 \end{array} \quad \begin{array}{r} 11 \\ \times 5 \end{array} \quad \begin{array}{r} 6 \\ \times 6 \end{array} \quad \begin{array}{r} 9 \\ \times 8 \end{array} \quad \begin{array}{r} 7 \\ \times 7 \end{array} \quad \begin{array}{r} 7 \\ \times 9 \end{array}$$

$$\overline{2)16} \quad \overline{3)3} \quad \overline{3)15} \quad \overline{5)20} \quad \overline{3)18} \quad \overline{3)6} \quad \overline{5)15} \quad \overline{7)56} \quad \overline{9)27} \quad \overline{4)16} \quad \overline{7)21} \quad \overline{4)20} \quad \overline{7)28}$$

$$\begin{array}{r} 6 \\ \times 2 \end{array} \quad \begin{array}{r} 4 \\ \times 4 \end{array} \quad \begin{array}{r} 7 \\ \times 6 \end{array} \quad \begin{array}{r} 5 \\ \times 4 \end{array} \quad \begin{array}{r} 12 \\ \times 12 \end{array} \quad \begin{array}{r} 3 \\ \times 5 \end{array} \quad \begin{array}{r} 6 \\ \times 3 \end{array} \quad \begin{array}{r} 3 \\ \times 8 \end{array} \quad \begin{array}{r} 0 \\ \times 8 \end{array} \quad \begin{array}{r} 7 \\ \times 3 \end{array} \quad \begin{array}{r} 5 \\ \times 5 \end{array} \quad \begin{array}{r} 6 \\ \times 4 \end{array} \quad \begin{array}{r} 3 \\ \times 9 \end{array} \quad \begin{array}{r} 8 \\ \times 4 \end{array}$$

$$72 \div 8 = \underline{\hspace{2cm}} \quad 8 \div 2 = \underline{\hspace{2cm}} \quad 72 \div 9 = \underline{\hspace{2cm}} \quad 6 \div 1 = \underline{\hspace{2cm}}$$

$$\overline{8)16} \quad \overline{3)21} \quad \overline{9)18} \quad \overline{4)24} \quad \overline{2)6} \quad \overline{1)8} \quad \overline{5)35} \quad \overline{7)35} \quad \overline{3)27} \quad \overline{6)36} \quad \overline{3)24} \quad \overline{2)0} \quad \overline{4)32}$$

$$\begin{array}{r} 6 \\ \times 9 \end{array} \quad \begin{array}{r} 8 \\ \times 8 \end{array} \quad \begin{array}{r} 4 \\ \times 9 \end{array} \quad \begin{array}{r} 4 \\ \times 3 \end{array} \quad \begin{array}{r} 1 \\ \times 4 \end{array} \quad \begin{array}{r} 8 \\ \times 3 \end{array} \quad \begin{array}{r} 11 \\ \times 7 \end{array} \quad \begin{array}{r} 6 \\ \times 5 \end{array} \quad \begin{array}{r} 7 \\ \times 8 \end{array} \quad \begin{array}{r} 5 \\ \times 3 \end{array} \quad \begin{array}{r} 2 \\ \times 7 \end{array} \quad \begin{array}{r} 6 \\ \times 8 \end{array} \quad \begin{array}{r} 4 \\ \times 5 \end{array} \quad \begin{array}{r} 11 \\ \times 4 \end{array}$$

123. Convert from fraction, decimal and percentage.

Fraction (simplest form)

Decimal

Percentage

$\frac{1}{2}$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

20%

\_\_\_\_\_

.08

\_\_\_\_\_

$\frac{3}{10}$

\_\_\_\_\_

\_\_\_\_\_

121. Do the following divisions. Then check your answer. Show your work. No calculators!

Check your work:

A.  $1524 \div 6 = \underline{\hspace{2cm}}$

$$\begin{array}{r} \underline{\phantom{x}} \times 6 \\ 1524 \end{array}$$

B.  $380 \div 10 = \underline{\hspace{2cm}}$

$$\begin{array}{r} \underline{\phantom{x}} \times 10 \\ 380 \end{array}$$

C.  $4235 \div 10 = \underline{\hspace{2cm}}$

$$\underline{\phantom{x}} \times \underline{\hspace{2cm}}$$

D.  $4 \overline{)769}$

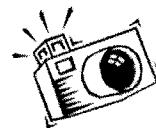
$$\underline{\phantom{x}} \times \underline{\hspace{2cm}}$$

E.  $5 \overline{)765}$

$$\underline{\phantom{x}} \times \underline{\hspace{2cm}}$$



# Summer Selfie Book Project



## Why are we doing this project?

1. This project gives you an incentive to read over the summer months. Having a hands-on activity to go along with your book will motivate you and hold you accountable.
2. Reading makes you more successful! Studies show that not reading for the summer puts you at an academic disadvantage. Successful students read a minimum of 20 minutes each day. Even though this project requires you to read only one book and one informational text, you should try to read 4-6 books this summer to prevent a summer slide in your literacy skills.
3. This project will help your teacher and your peers get to know you better. It might even inspire them to add your book to their reading bucket list.

## Where do I find a good summer reading book for my project?

1. You can choose one of the recommended books on the Aqsa Summer Reading List and check a copy of this book out from your English teacher's classroom library. Please return it next year when school starts.
2. If you are not interested in one of these books you may choose a book from your local library or bookstore. You must make sure your book is Islamically appropriate. Please have your parent's sign a permission slip if you decide not to choose a book from the Aqsa list.
3. Before you choose a book try to read some reviews about it. You can find lots of book review websites online. Two we recommend include: [www.dogobooks.com](http://www.dogobooks.com) or [www.goodreads.com](http://www.goodreads.com)
4. WARNING!!!! Do NOT choose a book that you've read before in the past for another teacher or on your own. Pick a fresh one, so you are reading it for the first time.

## \*Where do I find a good informational text for my summer reading project?

You can go to the website [www.newsela.com](http://www.newsela.com) to find free access to hundreds of news articles and journals. Also, [www.tweentribune.com](http://www.tweentribune.com) is also a good resource to use as you search for an article that is appropriate for you.

## What do I need to include in my slide show?

You must have a minimum of **11 slides** total and include at least **5 selfies** total in your slide show.

- **Title slide**- Contains book's title, author, student's name, and a *selfie of you reading the book.*
- **Setting slides**-- Introduces and weaves together the setting of the book and your trip in a clever and creative way. Includes images for both the book and *selfies of you at your vacation spot.*
- **Character slides**—Introduce the main characters of the book and *selfies with the people on your vacation.*
- **Summary slides**-- Introduce the main problem of the book. Includes 3 or more images representing major events in the book. Hint at the book's ending, but please no spoilers. *You should also share what you did while you were on your summer trip and any problems you had as you were reading this book.*
- **Connection slide**-- Share which character you are most alike or connect with from this book and why. *Include selfie of you dressed up or imitating this character in some way.*
- **\*Informational text slide**-- You provided an oral summary of the informational text you read this summer. Informational texts are non-fiction and usually come from journals or online news articles. Include at least 3 bulleted facts & an image on your slide with a link to where you found this information. Try to find an informational text that connects to your book. If possible choose one about the author or about some other topic or issue that relates to the book.
- **Rating slide**-- Give this book a rating to indicate why you think your peers should or should not read it. *You should also rate your vacation spot. Use a selfie as a visual for your rating.*

## How long will I have to complete my project and how will it impact my grade?

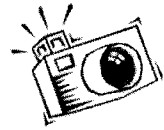
Take the whole summer to work on this project. Choose your book and take it along with you wherever you go this summer. Be sure to snap the necessary selfies as you read your book. Be sure to allow yourself at least one week to work on your slides after you finish your book. Make your slides soon after you finish your book while the text is still fresh on your mind. **You will be expected to present your project during the first week of school. This project will be your first test grade of the school year, so DO NOT PROCRASTINATE!** You should be finished with your project before school starts!

## If I am planning to take AP Literature or Language next year, you will read an additional book?

AP Language students must read, *Fast Food Nation: The Dark Side of the All-American Meal* by Eric Schlosser. AP Lit are required to read *Pride and Prejudice* by Jane Austen. Finish before the first day of school, so you will be ready to write your first in-class essay about this text. Bring post-it notes or a reading journal (noting page numbers) to show evidence of annotations.



# Summer Selfie Book Project



Student Name \_\_\_\_\_

	A	B	C	D-F	Grade
<b>Title</b> (1 side)	Contains book's title, author, student's name, and <i>selfie of you reading the book</i> . <b>(The book chosen is off the Aqsa summer reading list or is Islamically appropriate. Turn in a signed parent permission slip if you are not using an Aqsa book.)</b>	Title slide is present but lacks complete information.	Title slide is present, but lacks much of the required information	No image or very little info, or the book is inappropriate	
<b>Setting</b> (2 slides)	Introduces and weaves together the setting of the book and your trip in a clever and creative way. Includes images for both the book and <i>selfies of your vacation spot</i> . <b>(You don't have to really go anywhere on a trip. It could be by the pool in your backyard.)</b>	Shares both setting of book and your vacation, but doesn't include an image that relates or illustrates to each place	States the setting of one, but not the other and doesn't include images.	The slide about setting missing.	
<b>Characters</b> (2 slides)	Main characters of the book are introduced and the <i>people on your vacation with you are introduced with selfies</i> .	Most of character information is included and images sort of relate.	Character descriptions are incomplete or images inadequate	Little or no information characters or images mentioned	
<b>Summary</b> (3-5 slides)	Introduce the main problem of the book. Includes 3 or more images representing major events in the book. Hint at the book's ending, but please no spoilers. <i>You also share what you did while you were on your summer trip and any problems you had along the way as you were reading this book.</i>	Adequate plot summary and vacation summary with some events included, but there are fewer slides than required or fewer images than required or you spoiled the ending for us.	Incomplete plot summary or incomplete vacation summary and images are lacking or don't seem to connect or relate well to the book or vacation.	Missing summary of book or vacation or missing images completely.	
<b>Connection</b> (1 slide)	Share which character you are most alike or connect with from this book and why. <i>Include selfie of you dressed up or imitating this character in some way.</i>	You mentioned a character and included selfie, but didn't explain why you connect with this character.	Does mention the character but information is unclear or selfie is missing or just doesn't fit.	Missing character name, explanation, and image completely.	
<b>Informational Text Summary</b> (1 slide)	You provided an oral summary of the informational text you read this summer. Include at least 3 bulleted facts & an image on your slide with a link to a website or online journal article where you found this information. Try to find an informational text that connects to your book-- about the author or about some other issue that relates to the book.	You provided a brief summary, but only included 2 facts and a link.	You didn't say much about your informational text, so it wasn't very clear how it connected and you only mentioned 1 fact or the link was missing or didn't work. The text may have been fictional or fake news because it did not come from a reliable source.	No information text was given or link.	
<b>Rating Slide</b> (1 slide)	Give this book a rating to indicate why you think your peers should or should not read it. <i>You should also rate your vacation spot. Use a selfie as a visual for your rating.</i>	Adequate reasons for recommendation of both the book and trip, but no selfie to visualize this rating.	No reasons for your opinion.	No mention of your opinion	
<b>Overall Presentation Quality</b>	Free of errors & your voice was articulate & enthusiastic. Stayed within <b>3-5 minute</b> time frame.	You had a minor error, but your voice was clear and sort of enthusiastic.	You were unprepared and had several errors or your voice wasn't clear.	You stood up to talk about something.	

# **Postcard Project**

All students must send a postcard to Aqsa School at some point during Ramadan or shortly after. Students may purchase the postcard or create one of their own. Students should choose or create a postcard that artistically expresses who they have become or what they learned about themselves this summer during the holy month of Ramadan.

On the back of the postcard, students must write a well-written note occupying all the space allowed. The note must reveal something new that the student learned about themselves this summer through an activity or experience they engaged in during Ramadan. Students must provide specific examples to support their ideas. Students should also analyze how the image on the postcard symbolizes their growth.

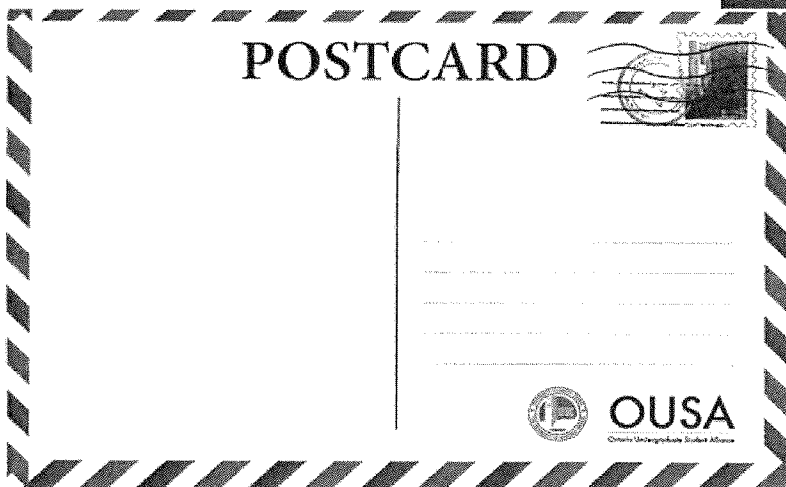
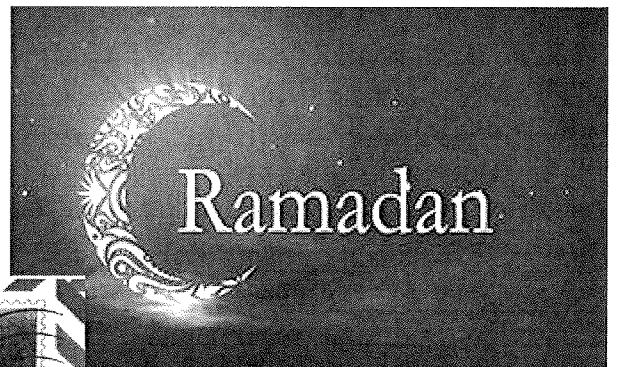
The note must adhere to the good writing techniques, such as--action verbs, similes/metaphors, hyperbole, onomatopoeia, dialogue, reflection, imagery, alliteration, personification, etc.

Make sure the student's name is clearly written on the postcard.

**This project is worth a grade in your English class!**

Postcards must be sent to the following address:

**Aqsa School  
7361 W. 92nd St.  
Bridgeview, IL 60455**



## 2018 Aqsa Summer Reading List

**Directions:** You must choose from the list for your grade. Please do not read books that are for other grades. If you choose a book not on this list, it must be Islamically appropriate, and you must get your parent's approval by submitting the signed slip at the bottom of this page.

### Going into Sixth Grade

1. *Ella Enchanted* by Gail Carson Levine
2. *Esperanza Rising* by Pam Munoz Ryan
3. *Rules* by Cynthia Lord



### Going into 7th/8th Year A

1. *The Thief Lord* by Cornelia Funke
2. *My Name is Sally Little Song* by Brenda Woods
3. *The Wanderer* by Sharon Creech

### Going into Ninth Grade

1. *Surviving the Applewhites* by Stephanie S. Tolan
2. *The Willoughbys* by Lois Lowry
3. *Ask Me No Questions* by Marina Budhos

### Going into Tenth Grade

1. *Words in the Dust* by Trent Reedy
2. *Out of My Mind* by Sharon Draper
3. *Homecoming* by Cynthia Voigt

### Going into 11th/12th Grade

1. *The First Phone Call From Heaven* by Mitch Albom
2. *The Skin I'm In* by Sharon G. Flake
3. *Black Boy* by Richard Wright

### In addition, AP Literature students must read:

*Pride and Prejudice* by Jane Austen

### In addition, AP Language students must read:

*Give a Boy a Gun* by Todd Strasser

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**If you choose your own book, you must obtain your parent's permission and return this slip to your English teacher.**

I give my permission for my daughter (student's name) \_\_\_\_\_ to read  
(book's title)\* \_\_\_\_\_ by (author) \_\_\_\_\_ for the  
summer reading project of 2018.

**Parent's signature:** \_\_\_\_\_ **Date** \_\_\_\_\_

\*Parents please be sure that the book you are approving your child to read is Islamically appropriate.